

IN THE CLAIMS

Please amend the claims as follows:

1-62 (Canceled).

63 (Currently Amended): An electrostatic actuation device comprising:

at least one mobile electrode, comprising at least one mobile part that is flexible and free to move with respect to a substrate;

at least two fixed electrodes, fixed with respect to the substrate, wherein the at least two fixed electrodes are located on a same side of [[as]] the mobile electrode and each facing a part the mobile part of the mobile electrode; and

means for forming at least one pivot of at least one portion of the mobile electrode, wherein each of the at least two fixed electrodes are configured to progressively force the mobile part of the mobile electrode facing each of the fixed electrodes, respectively, to contact the substrate as a function of applied voltage, and

~~wherein the mobile electrode may bear part bears on the~~ means forming at least one pivot when one of the fixed electrodes attracts a first portion of the mobile part of the mobile electrode facing the fixed electrode, the other and another portion part of the mobile part of the mobile electrode possibly is configured to move moving away from the substrate by mechanical return forces.

64 (Currently Amended): A device according to claim 63, wherein the mobile electrode comprising at least one mobile part extends along at least one direction perpendicular to the substrate.

65 (Currently Amended): A device according to claim 63, wherein the at least two fixed electrodes ~~being~~are separated from the mobile electrode by an insulating layer ~~formed on the substrate and/or the mobile electrode.~~

66 (Currently Amended): A device according to claim 63, wherein the mobile part of the mobile electrode ~~being~~ is connected by a pad to a membrane.

67 (Currently Amended): A device according to claim 63, wherein the means for forming the at least one pivot comprising ~~comprising~~includes at least one pad fixed with respect to the substrate.

68 (Withdrawn and Currently Amended): A device according to claim 63, wherein the means for forming the at least one pivot comprising ~~comprising~~includes at least one arm arranged laterally with respect to the mobile part, or two arms arranged on each side of the mobile part.

69 (Withdrawn and Currently Amended): A device according to claim 63, wherein the mobile part of the mobile electrode ~~forming~~ forms an elbow.

70 (Withdrawn): A device according to claim 63, comprising four fixed electrodes arranged in pairs facing each other, the mobile electrode comprising two mobile parts arranged crosswise.

71 (Withdrawn): A device according to claim 70, comprising two pivots.

72 (Currently Amended): A device according to claim 65, wherein the mobile electrode ~~comprising~~ comprises at least one part embedded or fixed on or in the substrate or the insulating layer.

73 (Currently Amended): A device according to claim 63, wherein each fixed electrode ~~being located facing~~ is disposed to face at least one end of the mobile electrode, on one side of the means for forming the at least one pivot.

74 (Currently Amended): A device according to claim 63, wherein the mobile electrode ~~comprising~~ comprises at least two mobile parts, each mobile part being free at one of its ends, ~~a fixed electrode located facing each mobile part.~~

75 (Withdrawn and Currently Amended): A device according to claim 74, wherein the mobile electrode ~~comprising~~ comprises three mobile parts, and the device includes three electrodes that are there being three fixed electrodes, each located facing a part of the mobile electrode and disposed to face the three mobile parts.

76 (Withdrawn and Currently Amended): A device according to claim 74, wherein each mobile part of the mobile electrode ~~being approximately~~ is elongated, and being laterally or angularly offset from each other.

77 (Withdrawn and Currently Amended): A device according to claim 63, comprising three fixed electrodes, and the mobile part comprising electrode includes three strips connected through an end.

78 (Currently Amended): An electrostatic actuation device comprising:

a mobile part ~~or flexible membrane being mobile or flexible~~, that is flexible and free to move with respect to a substrate, the ~~mobile part or membrane comprising~~ including at least two electrodes, separated by an electrically insulating portion;

at least one fixed electrode, fixed with respect to the substrate, wherein the at least one fixed electrode is located on a same side of the mobile part, ~~or flexible membrane and for which the at least one fixed electrode including a first part and a second part are located facing disposed to face a corresponding one of the corresponding electrodes of the mobile part or flexible membrane; and~~

means for forming at least one pivot of at least one portion of the mobile part,

wherein each of the first part and the second part of the at least one fixed electrode is configured to progressively force the corresponding electrode of the at least two electrodes in the mobile part to contact the substrate as function of applied voltage, and ~~or flexible membrane that may bear~~

the mobile part bears on the means forming at least one pivot when one of the fixed electrodes attracts one of the electrodes of the mobile part ~~or flexible membrane~~, the other electrode of the mobile electrode-part being free to move away from the substrate by mechanical return forces.

79 (Currently Amended): A device according to claim 78, wherein the mobile part or flexible membrane being is free to move along at least a direction perpendicular to the substrate.

80 (Currently Amended): A device according to claim 78, wherein the at least one fixed electrode includes two fixed electrodes being separated from the mobile electrode part by an insulating layer ~~formed on the substrate and/or the mobile electrode.~~

81 (Currently Amended): A device according to claim 78, wherein the mobile part or flexible membrane being is connected by a pad to a membrane.

82 (Currently Amended): A device according to claim 78, wherein the means forming the pivot comprising comprises at least one pad fixed with respect to the substrate.

83 (Withdrawn and Currently Amended): A device according to claim 78, wherein the means for forming the pivot comprising comprises at least one arm arranged laterally with respect to the mobile part ~~or flexible membrane~~, or two arms arranged on each side of the mobile part ~~or flexible membrane~~.

84 (Withdrawn and Currently Amended): A device according to claim 78, wherein the mobile part or flexible membrane forming forms an elbow.

85 (Withdrawn and Currently Amended): A device according to claim 78, further comprising four fixed electrodes arranged in pairs facing each other, the mobile part or flexible membrane comprising two mobile parts or two flexible membranes arranged crosswise.

86 (Withdrawn and Currently Amended): A device according to claim 85, further comprising two pivots.

87 (Currently Amended): A device according to claim 80, wherein the mobile part ~~or flexible membrane comprising~~ comprises at least one part embedded or fixed on or in the substrate or the insulating layer.

88 (Currently Amended): A device according to claim 78, wherein each fixed electrode ~~being located facing~~ is disposed to face at least one end of ~~[[a]] the mobile electrode part,~~ on one side of the means for forming the at least one pivot.

89 (Withdrawn and Currently Amended): A device according to claim 78, wherein the mobile part ~~or flexible membrane comprising~~ comprises at least two mobile electrodes ~~or two flexible membranes,~~ connected at one end by an insulating portion, each mobile electrode being free at one of its ends, and the device further comprises ~~[[a]] fixed electrode facing electrodes disposed to face~~ each mobile electrode.

90 (Withdrawn and Currently Amended): A device according to claim 89, wherein the mobile part ~~or flexible membrane comprising~~ comprises three mobile electrodes.

91 (Currently Amended): A device according to claim 89, wherein the mobile electrodes ~~being approximately~~ are elongated and ~~being laterally or angularly offset from~~ each other.

92 (Previously Presented): A device according to claim 78, comprising at least two fixed electrodes.

93 (Withdrawn and Currently Amended): A device according to claim 63, further comprising an electrical contact element ~~being~~ fixed on the mobile part.

94 (Currently Amended): A device according to claim 63, wherein the mobile electrode, the fixed electrodes, and the means forming the pivot ~~being approximately~~ are in a plane on a surface of the substrate.

95 (Withdrawn and Currently Amended): A device according to claim 63, wherein ~~the~~ at least one mobile electrode ~~comprising~~ comprises a magnetic or partially magnetic ~~means~~element, and the device further ~~comprising~~ comprises a fixed magnetic ~~means~~element, fixed with respect to the substrate, ~~for creating which creates~~ a contact with the magnetic ~~means or partially magnetic element~~ of the mobile electrode.

96 (Withdrawn and Currently Amended): A device according to claim 95, wherein an electrostatic force and magnetic force involved during ~~[[a]] the~~ contact ~~having~~ has a relative difference of about 10%.

97 (Withdrawn and Currently Amended): A device according to claim 95, wherein an electrostatic force and magnetic force involved during ~~[[a]] the~~ contact ~~being~~ is greater than the mechanical return forces.

98 (Withdrawn and Currently Amended): A device according to claim 97, wherein an electrostatic force and magnetic forces involved during ~~[[a]] the~~ contact ~~being~~ are at least 10 times greater than the mechanical return forces.

99 (Withdrawn and Currently Amended): A device according to claim 95, wherein the magnetic ~~means-or partially magnetic element~~ of the mobile electrode and the fixed magnetic ~~means-element define~~ defining at least two stable positions of the device.

100 (Previously Presented): A device according to claim 63, further comprising at least one fixed electrode and one mobile electrode defining a capacitor.

101 (Currently Amended): A device according to claim 63, wherein the means for forming the pivot ~~being used to hold~~ holds a point of ~~[[a]]~~ the mobile electrode at a height of between 50 nm and 20 μ m with respect to the substrate.

102 (Withdrawn and Currently Amended): An actuation device for an optical component comprising:

at least one electrostatic actuation device according to claim 63; and

a support means for unit that supports an optical component, connected to the mobile electrode, and ~~being driven in displacement by the mobile electrode during displacement of~~ the mobile electrode.

103 (Withdrawn and Currently Amended): A device according to claim 102, wherein at least one of the electrodes of one of the actuation devices comprising an elongated body with a first width along a first direction and a starter end with a second width wider than the first width.

104 (Withdrawn and Currently Amended): A device according to claim 102, comprising two electrostatic actuation devices, the support ~~means-unit~~ of ~~an~~ the optical component being connected to the two electrostatic actuation devices.

105 (Withdrawn and Currently Amended): A device according to claim 104, wherein the two electrostatic actuation devices ~~being~~ are arranged on each side of the support ~~means-unit~~ of ~~[[an]]~~ the optical component.

106 (Withdrawn and Currently Amended): A device according to claim 104, wherein the two electrostatic actuation devices ~~being~~ are arranged on a same side as the support ~~means-unit~~ of ~~[[an]]~~ the optical component.

107 (Withdrawn and Currently Amended): A device according to claim 104, wherein the two electrostatic actuation devices ~~extending~~ extend along two directions approximately parallel to each other.

108 (Withdrawn and Currently Amended): A device according to claim 104, wherein the two electrostatic actuation devices each ~~comprising~~ comprise a curved part.

109 (Withdrawn and Currently Amended): A device according to claim 108, wherein the two electrostatic actuation devices ~~being~~ are mechanically connected by at least one common end.

110 (Withdrawn and Currently Amended): A device according to claim 104, comprising two drive arms connecting the two electrostatic actuation devices to the support ~~means-unit~~ of ~~[[an]]~~ the optical component.

111 (Withdrawn and Currently Amended): A device according to claim 104, further comprising a substrate in which a cavity enables pivoting of the support ~~means-unit~~ of the optical component.

112 (Withdrawn and Currently Amended): A device according to claim 104, further comprising a frame and a connecting means-connecting unit which connects the electrostatic actuation device and the support ~~means-unit~~ of ~~[[an]]~~ the optical component to the frame.

113 (Withdrawn and Currently Amended): A device according to claim 112, wherein the connecting ~~means-comprising unit comprises~~ torsion arms.

114 (Withdrawn and Currently Amended): A device according to claim 104, wherein the support ~~means-having unit includes~~ a closed contour with a curvature.

115 (Withdrawn and Currently Amended): A device according to claim 114, wherein at least one of the two electrostatic actuation ~~means-being devices is~~ arranged around or along the contour.

116 (Withdrawn and Currently Amended): A device according to claim 114, wherein the at least one of the two electrostatic actuation ~~means-devices is~~ being arranged radially with respect to the contour.

117 (Withdrawn and Currently Amended): A device according to claim 114, wherein
the contour ~~being~~ is circular.

118 (Withdrawn and Currently Amended): A device according to claim 114, further
comprising a stretching means-unit arranged between the at least one of the two electrostatic
actuation ~~means-devices~~ and the support ~~means~~ unit.

119 (Withdrawn and Currently Amended): A device according to claim 118, wherein
the stretching ~~means-comprising~~ unit comprises at least one stretching loop.

120-124 (Canceled).